

ABSTRACT OF THE DISCLOSURE

[0050] A system and method for enabling a node, such as a mobile user terminal in a wireless communications network, such as an ad-hoc network, to effectively and efficiently determine a clock correction factor for its local clock relative to a local clock of at least one other node. The node calculates a difference between the timing of the local clock of the node and the local clock of the other node based on the timing of signals transmitted between the node and the other node, and information pertaining to the transmission and reception of these signals by the node and the other node as indicated by the respective local clocks of the node and the other node. The system and method further enables a plurality of nodes in an ad-hoc packet-switched communications network to calculate their respective local clock correction factors relative to the local clocks of their neighboring nodes in this manner with minimal message transmissions between the nodes, to reduce the amount of overhead in the network needed for such clock correcting operations.

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